State of New Hampshire Department of Transportation

Capital Budget Committee
HB25 Presentation
March 15, 2017



STATE OF NE CAPITAL IMPROVEME FISCAL YEARS 2018-2019		RE COLLEGE	0 1 001.01					
FISCAL YEARS 2018-2019	ENT PROJECT REQU		y Fund HB	CODE		NAME		
		EST CHOIL A	AGENCY	096	Department	of Transportation		
	P		ACTIVITY / DIVISION	964010	Division of A	eronautics, Rail & T	ransit	
	PRIORITY#	1	PROJECT-TITLE / NAM	IE	Public Trans	it Bus & Facility Mat	ching F	unds
				Ogen is to		Edika Suran Carrier		
Cap	tal Budget Request		Related	Annual Oper	ating Budget E	xpenditures / Saving	s Estin	nates
	Site Acquisition (a)					Expenditures		Savings
Site Improveme	ent / Preparation (b)		Permanent Personnel Services (a)					
	Construction (c)		Othe	r Personnel S	Services (b)		1 1	*
	Utilities (d)				Expense (c)		7	
Archite	ct / Engineering (e)				uipment (d)		7	
	ems / Equipment (f)			NESS.	Travel (e)		7 1	
Hardware					Other (f)	~	7 /	
Software			Total Expenditure	es / Savings			1	
Training			Accounting Unit:	9			J L	
Service		R.	Will these amounts b	e consistent	each year?		7 [
Furr	ish / Equipment (g)	1,241,881			1 1000 500		1	
	Other (h)			Capital	Budget Criteria	(See Instructions)		
Total Capit	al Budget Request	1,241,881	NY MARKET NO. 11 NO. 12 NO.		irement Code:	A, B, C or D	В	Commence of the second
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0	ther Information		Funding Percen			G, F, H, O	F	%
	al Square Footage:		G = General	F = Fed		G, F, H, O	G	100.00%
	timated Useful Life:	7 Years	H = Highway	O = Oth		G, F, H, O	0	%
			An Information Technolog				0	70
		2 3	7 th mornation recommon	9911000011110	ist be part of you	it it i lait. I loject#		The Park VET IN
		Proi	ect Justification (Be Cond	ise)				
vehicles for non-profit agence above. The requested State enables transit providers to provides access to jobs and	shua, Dover-Portsmouth, cies that provide transports capital match will provid leverage Federal capital for critical services for New Fed to match formula apport 5310 Enhanced Mobility	Derry-Salem, Hanover-Lation for elderly individual e 10% (or ½ of the requirements for needed vehicle Hampshire residents, protioned funds from the Ferof Seniors and Individual	ebanon, Concord, Laconia, ls and individuals with disabled match if different) and lo replacements and facility importing economic developments. deral Transit Administration ls with Disabilities funds, and	Claremont, B illities. Feder cal funds will provements t ent and mobil grants progra d FTA Section	erlin-Lancaster- ral funds provide provide the rem hat might not oth lity for all citizens ams including FT n 5307 Urbanize	Littleton, and Keene, 80% of the capital ne aining required match terwise be available. A Section 5339 Capit d Area Formula Prog	and (2) eds for . State Public t	the acquisition of transit projects listed participation transportation & Bus Facility ds as well as any
non-federal match on capita Federal. Urban transit syste	I projects. Funding for rur	al transit systems is including transit systems and directly from the Federal	ded in the DOT Operating E Transit Administration and t	Budget GL Ac	counting Unit 29	16; Public Transporta matching funds are no Telephone Nur	ition, Cl	ass 072: Grants

2018-2019 Biennium: Public Transit Request

This request provides matching funds for: (1) The acquisition of public transit vehicles, facilities, and infrastructure, including bicycle & pedestrian infrastructure, for local public transit agencies in Manchester, Nashua, Dover-Portsmouth, Derry-Salem, Over-Lebanon, Concord, Laconia, Claremont, Berlin-Lancaster-Littleton, and Keene, and (2) the acquisition of vehicles for profit agencies that provide transportation for elderly individuals and individuals with disabilities. Federal funds provide 80% of the capital needs for transit projects listed above.

Federal funds provide at least 80% of the capital needs for transit projects listed above. The requested State Capital match will provide 10% (or ½ of the required match) and local funds will provide the remaining required match. State participation enables transit providers to leverage Federal capital funds for needed vehicle replacements and facility improvements that might not otherwise be available. Public transportation provides access to jobs and critical services for New Hampshire residents, promoting economic development and mobility for all citizens. Requested funds will be used to match formula apportioned funds from the Federal Transit Administration grants programs including FTA Section 5339 Capital Bus & Bus Facility Program funds, FTA Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities funds, and FTA Section 5307 Urbanized Area Formula Program funds. Without State Capital match many transit projects would be delayed due to the inability to raise the required non-federal match on capital projects. Funding for rural transit systems are included in the DOT Operating Budget GL Accounting Unit 2916; Public Transportation, Class 072: Grants Federal. Urban transit systems receive federal funds directly from the Federal Transit Administration and these federal and local matching funds for urban transit systems, totaling \$6,002,654 and are not in the DOT Operating Budget.

2	018-219 Biennium	1	te Capital Funds quested	Act making the	cal Match	ALC:	Federal Funds everaged	To	tal Project Costs
CART	2 ADA paratransit vehicles	\$	20,000	\$	20,000	\$	160,000	\$	200,000
COAST	11 heavy-duty midlife vehicle overhauls, 2 45' used motor coaches, 2 ADA accessible minivans, 10 bus shelters	\$	76,750	\$	76,750	\$	614,000	\$	767,500
	4 30' heavy-duty transit buses, 5 12&2 ADA paratransit buses	\$	368,667	\$	368,667	\$	2,949,338	\$	3,686,672
Nashua Transit	4 30' heavy-duty transit buses, 1 ADA paratransit bus	\$	201,544	\$	201,544	\$	1,612,355	\$	2,015,444
Advance Transit	4 35' heavy-duty low floor buses, 4 30' medium-duty transit buses, 1 ADA paratransit bus, 5 bus shelters	\$	256,078	\$	256,078	\$	2,048,626	\$	2,560,782
Belknap-Merrimack Community Action Program (Concord Area Transit & Winnipesaukee Transit)	1 30' medium-duty bus, 3 ADA paratransit buses	\$	46,441	\$	46,441	\$	371,530	\$	464,412
Community Alliance Transportation Services	2 accessible cutaway vehicles & 2 accessible vans	\$	24,000	\$	24,000	\$	192,000	\$	240,000
Tri-County Community Action Program (North Country Transit & Carroll County Transit)	5 small cutaway transit buses & 1 24-passenger medium-duty transit bus	\$	58,900	\$	58,900	\$	471,200	\$	589,000
VNA @ HCS (Keene)	3 27' transit buses	\$	19,500	\$	19,500	\$	156,000	\$	195,000
Public Transit Bike-Ped infrastructure	Bicycle & pedestrian infrastructure improvements including bicycle racks, passenger shelters, way finding signage, curb cuts for improved accessibility	\$	20,000	\$	20,000	\$	160,000	\$	200,000
Statewide 5310 providers	10% match for vehicles to be solicited through statewide (open solicitation) for non-profits providing service to seniors & individuals with disabilities (approximately 20-24 vehicles)	\$	150,000	\$	150,000	\$	1,200,000	\$	1,500,000
ACCOMPANIES OF	Total	\$	1,241,881	\$	1,241,881	\$	9,935,048	\$	12,418,810

Total funds requested for the 2018-2019 Biennium: Total vehicles requested for 2018-2019 Biennium:

\$1,241,881 77 (approximately)



2004 Bus corrosion underneath



2004 Gillig exterior



2004 Bus w/ corrision on entry door



2004 Bus w/ corrision on frame



2003 Orion Bus



2003 Orion Bus



2011 Cutaway Paratransit--rust



2003 Orion Bus



6-



Community Alliance: 2010 Startrans rust & high mileage



CART Bus Salem-Derry: 2009 Arboc with 150,000+ miles and 7.1 mpg



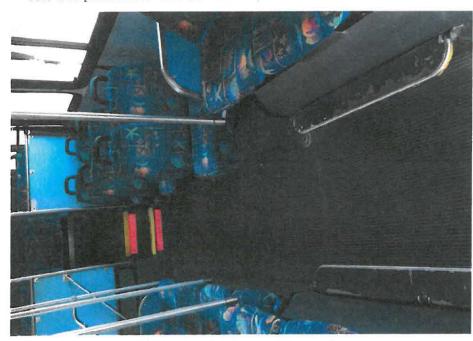
Keene City Express: 2007 bus with 125,000+ miles



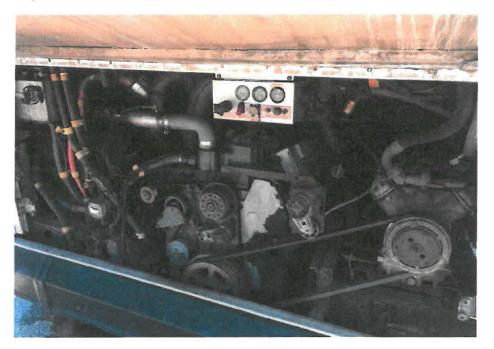
Tri-County CAP Berlin: 2008 Ford w/high mileage & wear & tear



2009 ADA paratransit minivan with 220,000+ miles



Interior of city bus to be overhauled



Engine to be overhauled



2006 Gillig bus with cosmetic repairs made, but heavy daily use and wear & tear



2009 ADA paratransit bus with cosmetic repairs made, but heavy daily use and wear & tear

FORM 1A STATE OF NEW HAMPSHIRE CODE NAME CAPITAL IMPROVEMENT PROJECT REQUEST **AGENCY** 096 New Hampshire Department of Transportation **FISCAL YEARS 2018-2019 ACTIVITY / DIVISION** 960515 **Highway Maintenance District 1** PRIORITY# PROJECT-TITLE / NAME Lisbon 114 - New Patrol Shed Facilities 为中央。19. 2015年的1933年的中华的基础。 的复数克莱斯特 医多种性 医多种性 医多种抗性 医皮肤炎 Capital Budget Request Related Annual Operating Budget Expenditures / Savings Estimates Site Acquisition (a) **Expenditures** Savings Site Improvement / Preparation (b) 350,000 Permanent Personnel Services (a) 1,600,000 Construction (c) Other Personnel Services (b) Utilities (d) 30,000 Current Expense (c) 100,000 Architect / Engineering (e) Equipment (d) Computer Systems / Equipment (f) Travel (e) Hardware Other (f) 42.812 Software Total Expenditures / Savings Estimates 42,812 Training Accounting Unit: 3007 Highway Maint. Service Will these amounts be consistent each year? Furnish / Equipment (g) 是自己的一种,特别的**"在我们的是对对这种**"的意思,但是是一种的一种,但是是一种的一种,但是是一种的一种,这种种的一种,是一种的一种, Other (h) Capital Budget Criteria (See Instructions) Requirement Code: , C or D **Total Capital Budget Request** 2,080,000 10.00mm (1.00mm) (1. Definition Code: , D, or X A Other Information Funding Percentages by Source: F. H. O H 100.00% F = Federal G, F, H, O Total Square Footage: 6400 sf G = General Estimated Useful Life: 25 H = Highway O = Other G, F, H, O An Information Technology Project must be part of your IT Plan. Project # And the Control of the Angle of the Control of the Project Justification (Be Concise) Construct new Highway Maintenance Patrol Section Facilities in Lisbon, including patrol shed and salt shed. Constructed in 1902, this facility does not meet current building codes. is obsolete, potentially unsafe, and is NOT energy efficient. Due to its historic significance, this structure is not a candidate for renovation. The new facilities can be sited on the existing lot due to the recent acquisition of the adjacent lot. Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet.

Telephone Number:

Date:

788-4641

5/16/16

Contact Name:

Name:

Victoria F. Sheehan

Philip Beaulieu - District 1 Engineer

Commissioner



The existing PS114 Lisbon facility was constructed in 1902 and is obsolete, potentially unsafe, not energy efficient and is under sized to meet level of service requirements. The current facility includes 1-bay vehicle storage that doesn't accommodate a state truck with wing installed, 1-room crew quarters and salt storage. Current facility is not capable of storing current maintenance vehicles and does not meet current building codes. The proposed new facility can be sited on the existing property. Utility and computer system upgrades are included.

The current salt storage is located in one bay of the building with insufficient capacity to store at least 1-years' worth of salt. The floor of the salt bay is below the exterior ground level creating issues with drainage at the entrance to the bay.

2) What the project is replacing or adding on to:

This project will construct a new right-sized facility that will include crew quarters, bathrooms, foremen office, and vehicle storage bays for trucks. The crew currently includes 5 full-time NH DOT District 1 employees with (3) 3-5 Ton plow trucks. The current facility is too small to allow for crew members to take a break without using space not intended for that purpose. The current facility has one crew space and the foreman uses a portion of the crew quarters as an office which is not secure or conducive for employee relations.

In the winter, only 1 plow truck can be stored inside with the other trucks stored outside. Trucks equipped with dry rock salt pre-wet systems can freeze-up when stored outside. Newer plow trucks equipped with vehicle emissions controls can also have temperature related issues if not stored in an above freezing environment.

Existing facility will be demolished as part of the project and was determined to have no adverse effect on historic properties.

3) A brief description of what the project includes

The project will include an 80-ft. by 80-ft. building that meets current building code requirements. Architectural/engineering analyses will define the building dimensions and utility accommodations similar to recent replacement NH DOT Highway Maintenance Facilities.

The project will also include a 70'x55' salt storage building using the standard DOT design to reduce engineering costs and sized to store at least 1-year of salt.

4) Any back up information

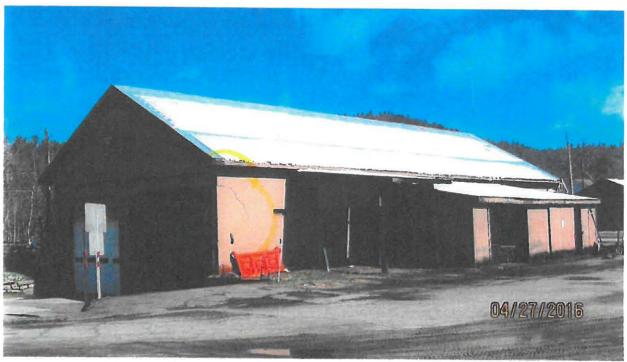


Photo 1: View of backside of building showing the salt storage bay (open) and vehicle storage bay (with garage door). Also visible is a significant crack in the exterior masonry wall near the bay opening.

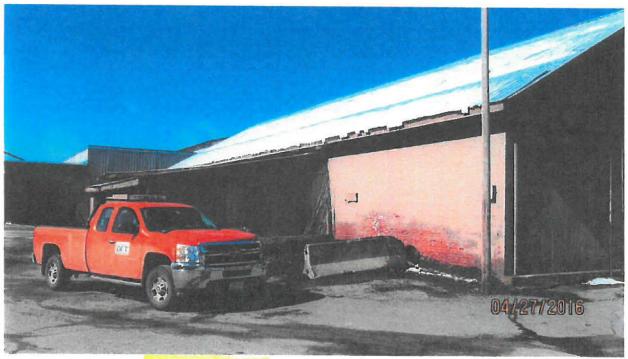


Photo 2: View of backside of building at the end near entrance to crew quarters showing significant damage.

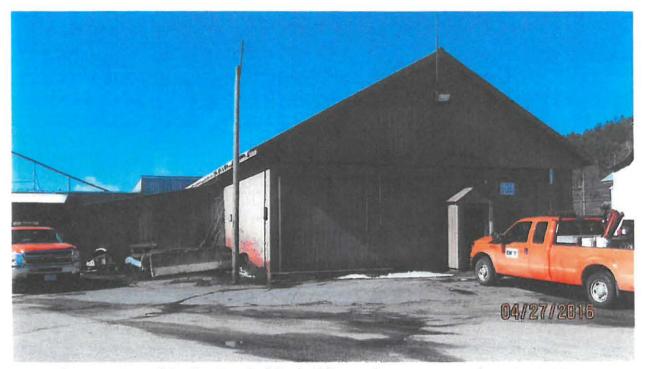


Photo 3: View of the front end of the building and entrance into the crew quarters.

	Se	ection 2 II-B			FORM 1A
STATE OF NEW HAM			CODE	NAME	*
CAPITAL IMPROVEMENT PROJECT		AGENCY	096	New Hampshire Department of Tra	ensportation
FISCAL YEARS 2018-2019		ACTIVITY / DIVISION	960515	Operations	ansportation
PRIORITY #	2	PROJECT-TITLE / NAME	_1	Statewide - Underground Fuel Tan	k Replacement
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Capital Budget Request		Related Annua	al Operating	Budget Expenditures / Savings Estim	ates
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Architect / Engineering (e)	100,000			ipment (d)	
Computer Systems / Equipment (f)				Travel (e)	
Hardware	14 June 19 19 19 19 19 19 19 19 19 19 19 19 19			Other (f)	
Software		Total Expenditur	es / Savings	Estimates	
Training	Harry Walter	Accounting Unit:			
Service Furnish / Equipment (g)		Will these amounts b	e consistent e	each year?	
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Total Capital Budget Request	2,000,000		3		A Participation of the Control of th
CHERTON CONTRACTOR CONTRACTOR	STALL SHAREHED AND STATE	ā	i)	Definition Code: C, D, or X	D A SAME AND A SAME AN
Other Information		Funding Percentage	es by Source:	3, F, H, O	H 100.00%
Total Square Footage:		G = General	F = Fed	200 March 200 Ma	
Estimated Useful Life:	30	H = Highway	O = Oth	mt crate Manual	
		An Information Technology Project	AND DESCRIPTION OF THE PROPERTY OF THE PARTY		⇒
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T. 1015	auth, has 40 fivel eiter that	Project Justification (Be Conci have underground storage tanks and appur		the sites and howard the life expectance	of the tanks and
components the notential for environments	ently has 40 fuel sites that	extensive repairs increases considerably.	rior Capital In	norovement Projects (CIP) provided fund	ding to bring many sites
into environmental compliance: this CIP re-	quest continues that effort	to replace the oldest and highest risk sites	and to make s	tructural improvements to sites near mic	d-life to prolong those
sites' life span and to minimize potential en	vironmental issues. Curre	ently, 6 sites are planned for scheduled repla	acement with a	an average cost of \$325K.	
			200	g	
×	Preliminary Plans: Attac	ch a schematic and location sketch when	applicable o	on an 8-1/2" x 11" sheet.	,
Contact Name: Caleb Dobbins	- State Maintenance Engi		FF	Telephone Num	ber: 271-2693
Name: Victoria F Sheehan	Commissioner	Val E A.		the state of the s	Pate: 5/6/16



The NH Department of Transportation currently has 40 fuel sites that have underground storage tanks and appurtenances that are 25 years or older. As the sites get beyond the warranty and life expectancy of the tanks and components, the potential for environmental issues and extensive repairs increases considerably. Prior Capital Improvement Projects (CIP) provided funding to bring many sites into environmental compliance; this CIP request continues that effort to replace the oldest and highest risk sites and to make structural improvements to sites near mid-life to prolong those sites' life span and to minimize potential environmental issues.

2) What the project is replacing or adding on to:

The project will continue the recapitalization plan of the existing fuel system by reconstructing new fuel sites at different patrol shed locations throughout the state. In most situations the existing fuel site will be removed to accommodate the new tank(s) and appurtenances, however in some locations the existing tank(s) will remain and everything above the tank top will be replaced.

3) A brief description of what the project includes

The project will include reconstruction of single product (diesel) and two product (unleaded and diesel) fuel sites. The project will also allow the reconstruction of some sites, except the tank(s), for those sites that are still young enough where a tank top upgrade will extend the site life another 10 to 15 years while reducing the environmental risk considerably. The desire is to perform tank top upgrades and reconstruct as many fuel sites as allowed by available funding, in the respective State Fiscal Years (SFY) while generally keeping with the following priority list:

- 1) SFY 16-17 current available funding ~ \$800,000 In calendar years (CY) 16-17 perform tank top upgrades (TTU) on Merrimack (UL & DS), Goffstown (DS), Chester (DS), and Chichester (DS); estimated cost \$200,000. In CY 17 perform TTU on Lancaster (UL & DS), Crawford (DS), and Lincoln (UL & DS); estimated cost \$200,000. Reconstruct Salem (UL & DS) in conjunction with the newly planned patrol and salt sheds, estimated cost \$350,000. Total estimated cost \$750,000
- 2) SFY 18-19 requested funding \$2,000,000 In CY 18 perform (TTU) on Hampton (UL & DS), Canaan (DS), Henniker (DS), Durham (UL & DS & BO), Exeter (DS), and Allenstown (DS), estimated cost \$350,000. Reconstruct Lisbon (DS) in conjunction with the newly planned patrol and salt sheds; estimated cost \$300,000. CY 18 total estimated costs \$650,000. In CY 19 Reconstruct 4 to 5 single diesel sites from the following possible locations Orford, Rumney, Marlow, Cornish, Greenville, Hollis, Hinsdale, Hancock, Pittsburg, Milan, and Jefferson to include engineering costs; estimated cost \$1,300,000. Total estimated cost \$1,950,000. Other sites may be considered, as conditions dictate at that time.

4) Any back up information

- DOT is doing ultrasonic testing on steel double wall tanks being removed this year that exceed 25
 years old to better assess the physical condition and departments risk with older steel tanks in the
 ground.
- 2.) New EPA regulations for tri-annual inspections and integrity (leak) testing of all sumps would require improvements to tank tops and sumps if they don't pass testing. Fuel personnel completed visual inspections of sites without recent tank top upgrades or reconstruction and assessed potential

issues that could be encountered during testing. This evaluation guided the prioritization of tank top upgrades on sites installed between 1993 and 2005.



Photo 1: Chichester – Drive pad with extensive damage and no positive limiting barriers (PLB's) in concrete. Increases risk of water getting into sumps and spills reaching subsurface soils. This is representative of some sites current conditions or potential future conditions without tank top upgrades or replacements.



Photo 2: Merrimack – Piping sump with water in the bottom causing significant damage to the piping components. Tank top upgrades will replace all piping components, sumps, tank pads and drive pads, extending the life of sites and significantly reducing short and long term maintenance requirements.



Photo 3: Dover Turnpikes – Dual product fuel site with undersized drive and tank pads with cracks prior to tank top upgrades in 2015, representative of the layout and condition of many older DOT sites.



Photo 4: Dover Turnpikes – Fuel site after 2015 tank top upgrade with new sumps, manholes, drive pad with PLB's and tank pad.



Photo 5: Northwood – Example of a full tank top upgrade or full replacement for a single dispenser site.

STATE OF NEW HAMPSHIPE Section 2 II-C FORM 1A									
STATE OF NEW HAMPSHIRE				CODE		NAM	F		
CAPITAL IMPROVEMENT PROJECT REC	AGENCY		096	New Hampshire Department of Transportation			rananartation		
FISCAL YEARS 2018-2019				960515					
PRIORITY #				Statewide Salt					
	3	PROJECT-ITTEL /	VANIC		Statewide Sait	Sneas			
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Capital Budget Request		Related Annual Opera					* 1 43 40 L		
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Site Improvement / Preparation (b)	100,000		Perma	nent Personnel S			1	Cavings	
Construction (c)	1,400,000		C	Other Personnel S	ervices (b)			36,661	
Utilities (d)				Current E	xpense (c)		1		
Architect / Engineering (e)	160,000			Equ	ipment (d)				
Computer Systems / Equipment (f)	i ni				Travel (e)				
Hardware			ř za nas	201 02020 2	Other (f)				
Software			Total Expend	itures / Savings	Estimates			36,661	
Training Service	\$50 See 4.5	Accounting Unit:	3007 Highway Mai Will these amoun	intenance			1		
Furnish / Equipment (g)		Latting to the state of the state of	vviii these amour	its de consistent e	each year?	and the section was	entition to the second	Yes	
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Total Capital Budget Request	1,660,000				Requirement Code		В	A Charles Commence	
	(2):44(2):4(10):4(1)(2)				Definition Code		Α	Charles to the control of	
Other Information	107		Funding Percentage	es by Source:		F, H, O	Н	100.00%	
Total Square Footage:	Varies		G = General	F = Federal	G	, F, H, O			
Estimated Useful Life:	25		H = Highway	O = Other		, F, H, O			
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ety Contact Co	STATE OF STATE OF		ELLOS ANTONIOS			- interpretation		THE STATE OF THE S	
			tion (Be Concise)						
Currently the Department of Transportation cannot	store a season's wor	th of salt at all patrol she	d locations. Ability to	store ample amo	unt of material will s	save funds d	lue to b	eing able to	
purchase materials and store them when the best p	rice is available. En	vironmental regulations	also require that all sa	It be stored under	cover. Design and	d construct s	alt shed	ds statewide.	
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Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet.									
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Name: Victoria F. Sheehan	Commissioner		E AL. 2	****	16	iopiione itu	Date:	5/16/16	
		Tura -	Alberta						

The department currently cannot store a season's worth of salt at all patrol shed locations and some sheds are reaching the end of their useful life, requiring significant maintenance to maintain function and safety. The ability to store ample salt will save funds due to being able to purchase materials and store them when the best price is available. Environmental regulations also require that all salt be stored under cover.

The department's standard high arch gambrel design allows delivery of salt to generally occur within the shed due to high door opening, limiting the potential environmental impacts from salt operations.

2) What the project is replacing or adding on to:

The project will construct new stand-alone salt buildings at different patrol shed locations throughout the state. In most situations the existing buildings will be demolished to accommodate the new structures, however in some locations the existing structure may remain depending on site layout and condition of the structure.

3) A brief description of what the project includes

The project will include construction of stand-alone salt buildings (4,000 sf to 11,500 sf) with lean-too cold storage and/or spreader rack bays on either side as additional alternates within the bidding process. The project will design and construct as many salt sheds as allowed by available funding while generally keeping with the following priority list:

- D2 Franklin (211) Medium Shed Shed is 44 years old and current capacity is 2000 tons. Current usage is almost 1900 tons per year, however the structure is in critical need of replacement to maintain function. Side walls are blown out in some locations and steel supports in roof have shown significant loss due to the corrosive environment.
- 2) D1 Pinkham (113-P) Medium Shed Shed is 52 years old current capacity is 1650 tons. Current usage is around 1500 tons per year, however the structure is in critical need of replacement to maintain function. Roof has holes in many locations, allowing precipitation to get into the salt pile reducing the quality of the salt and creating chunks in the pile.
- 3) D3 Loudon (316) Medium Shed Shed is 30 years old and current capacity is only 1,000 tons. Current usage is around 1050 tons per year and the ten year plan includes multiple projects that will expand sections of the Route 106 corridor and intersections in Loudon that this facility maintains. Replacement is critical to be able to store a years' worth of salt now and into the future as the demands of this corridor increase.
- 4) D1 Milan (106) Small Shed Shed is 42 years old and current capacity is only 500 tons. Annual usage is over 800 tons per year. The limited capacity requires the shed to store some material outside to maintain an adequate amount of material on hand to respond to significant storm events. Replacement is critical to be able to store a years' worth of salt undercover and maintain function due to an aging building.
- 5) D2 Bristol Medium Shed Shed is 45 years old and current capacity is 1500 tons. Annual usage is around 2100 tons per year. Replacement is critical to be able to store a years' worth of salt undercover and maintain function due to an aging building.
- 6) D3 Orford Medium Shed Shed is 40 years old and current capacity is 1700 tons. Annual usage is almost 2200 tons per year. Replacement is critical to be able to store a years' worth of salt undercover and maintain function due to an aging building.

7) D1 – Whitefield – Small Shed – Shed is 31 years old and current capacity is only 500 tons. Annual usage is over 1000 tons per year. Replacement is critical to be able to store a years' worth of salt undercover.

8) D3 - Belmont

4) Any back up information

Most recent bid results have shown total construction costs up to \$106 per sf for the departments standard High Arch Gambrel Salt building. Based on these numbers we would estimate anywhere from \$410,000 to \$960,000 for construction depending on the size of the building and addition of side storage buildings.



Photo 1: Franklin 211 - Front Elevation



Photo 2: Franklin 211 – Sidewall starting to blow out and temporary braces installed.

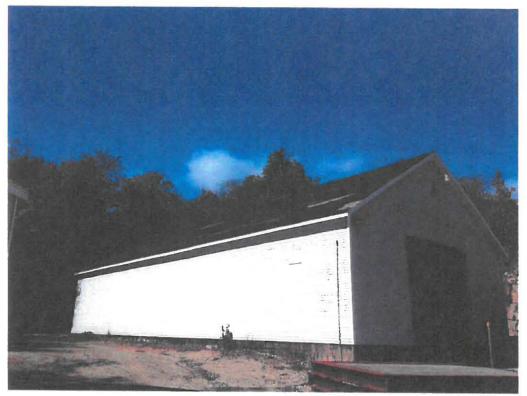


Photo 3: Pinkham 113 – Front and Side Elevation, Roof in disrepair.



Photo 4: Pinkham 113 – Temporary Buttresses supporting bowed rear wall.

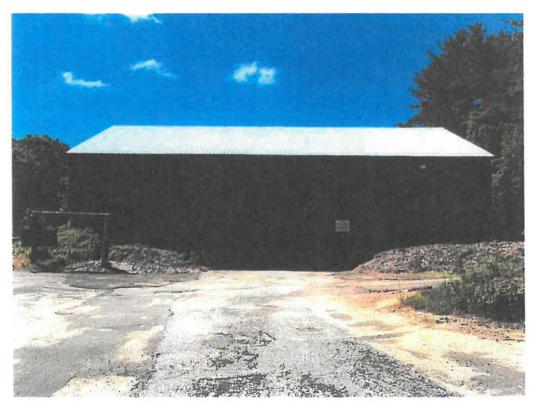


Photo 5: Loudon 316 - Front Elevation.

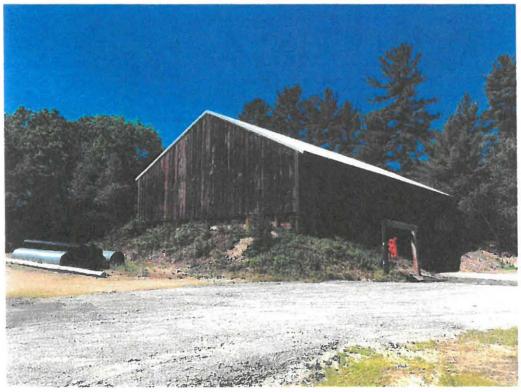


Photo 6: Loudon 316 – Sand fill used to hold push walls in place.

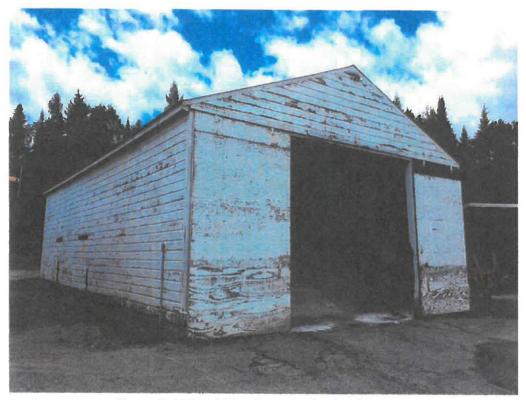


Photo 7: Milan 106 - Front and side elevation.



Photo 8: Milan 106 – Sand fill used to hold failed rear wall in place and makeshift anchors keeping walls in place.

STATEWIDE SALT SHEDS

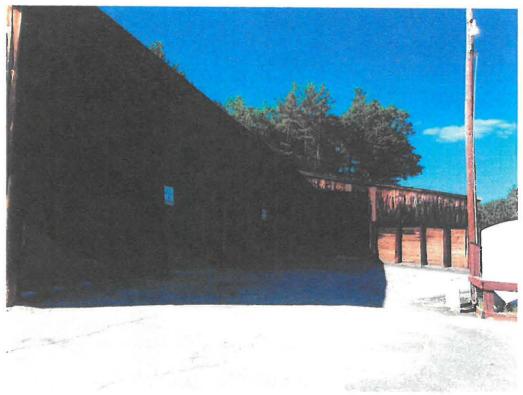


Photo 9: Bristol 206 - Front Elevation



Photo 10: Bristol 206 – Temporary braces holding side and rear walls in place.

		Se	ction 2 II-D				FORM 1A	
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CAPITAL IMPROVEMENT PROJECT REQUEST			AGENCY	096		shire Department of Transportati		
FISCAL YEARS 2018-2019			ACTIVITY / DIVISION	960515	ransportation			
PRIORITY # 4			PROJECT-TITLE / NAME	300313	Highway Maintenance D Manchester 527 - Additi		tral Chad	
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Site Improvement / Preparation (b)			Perm	Permanent Personnel Services (a)				
12	Construction (c)		Other Personnel Services (b)					
	Utilities (d)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Current E	xpense (c)			
	ect / Engineering (e)	120,000	47	Equ	ipment (d)			
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Hardware					Other (f)			
Software				ditures / Savings	Estimates			
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		PERSONAL PROPERTY AND PROPERTY OF THE PERSON			Definition Code: , D, or X	В		
Othe	er Information	a	Funding Perc	entages by Source	: F, H, O	Н	100.00%	
Tot	al Square Footage:	5,000	G = General	F = Federal	G, F, H, O			
Es	timated Useful Life:	25	H = Highway	G, F, H, O	V			
			An Information Technology F	Project must be part	t of your IT Plan. Project#	⇔		
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			ce Patrol Section PS527 facility in Ma	anchester. Current	facility is under sized to mee	t level of	service	
requirements. Current	facility is not capable of	of storing current mai	ntenance vehicles.					
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					VEC MODERATION ACCOUNTS No. 1756			
			hematic and location sketch whe	n applicable on an				
	Richard Radwanski - [District 5 Engineer Commission	or 7 - h.	N 	Telephone	Number: Date:		
Name: Victoria F.	OHEEHAH	COMMISSION	GI VILA V NLAL			Date.	3//0///	

PROJECT NAME: Manchester 527 - Patrol Shed Renovation/Addition

1) Why the project is necessary:

The existing PS527 Manchester facility is under sized, to meet level of service requirements especially given the I-93 Expansion project. The existing facility is not capable of storing current maintenance vehicles including brine trucks. The existing facility does not meet modern building codes, is considered obsolete, and potentially unsafe. Recent facility improvements to reduce interior mold formation have significantly improved the facility's energy efficiency. The proposed renovation/addition can be sited on the existing property. Utility and computer system upgrades are included.

2) What the project is replacing or adding on to:

This project will construct new crew quarters, bathrooms, foremen office, and two new vehicle storage bays for brine tanker trucks used to pre-treat roadways before a winter storm. The crew currently includes 11 full-time NH DOT District 5 employees which are supplemented for winter maintenance by up to 5 temporary NH DOT borrowed employees, and 8 hired trucks with an operator. The current facility is too small to allow for crew members to take a break without using space not intended for that purpose. The current facility has one bathroom which is not adequate for the regular crew size, and especially in the winter. Currently the foreman uses a closet as an office which is not secure or conducive for employee relations.

In the winter, the brine tanker trucks are stored inside at the PS511 Bedford facility to reduce the potential freeze-up of dispensing systems if stored outside. If a winter storm requires pre-treatment, then the crew needs to bring the operators to Bedford before the work can begin. Trucks equipped with dry rock salt pre-wet systems can freeze-up when stored outside. Newer plow trucks equipped with vehicle emissions controls can also have temperature related issues if not stored in an above freezing environment.

A brief description of what the project includes

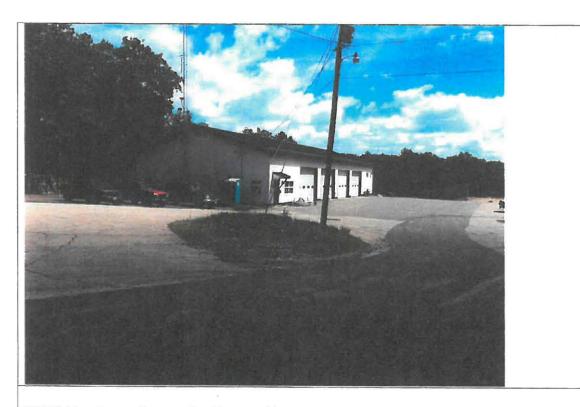
The project will include right-sizing the crew quarters, bathrooms, foremen office to meet current building code requirements. Architectural/engineering analyses will define the addition dimensions and utility accommodations. This addition to the building can be made on the west end of the existing structure.

The addition of 2 truck storage bays to the east end of the current structure is also planned. These will match the current building size and configuration with each bay being approximately 20-feet by 50-feet with an overall addition of approximately 40-ft wide by 50-ft deep. Two overhead garage doors are proposed for each bay to allow for trucks to pull through reducing backing accidents.

No salt storage or spreader storage buildings, or fuel dispensing improvement are proposed.

4) Any back up information

Attached are recent photographs of the existing facility for reference.



PS527 Manchester Perspective View Looking East



PS527 Manchester Perspective View Looking North



PS527 Manchester Perspective View Looking West



PS527 Manchester Perspective View Looking South

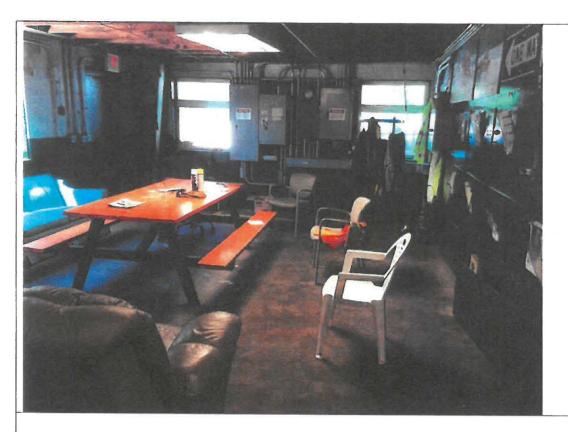
28



PS527 Manchester Interior View Looking East



PS527 Manchester Interior View Looking West



PS527 Manchester Interior View Supplemental Crew Quarters with Electrical Panels



PS527 Manchester Interior View Bathroom and crew quarters (for 11 DOT full-time employees + 10 additional employees in winter from hired equipment operators or borrowed NH DOT employees).

Section 2 II-E FORM 1A STATE OF NEW HAMPSHIRE CODE NAME CAPITAL IMPROVEMENT PROJECT REQUEST AGENCY 096 New Hampshire Department of Transportation **FISCAL YEARS 2018-2019 ACTIVITY / DIVISION** 960515 **Highway Maintenance District 1** PRIORITY# 5 PROJECT-TITLE / NAME Dixville 103D - New Patrol Shed Facilities Related Annual Operating Budget Expenditures / Savings Estimates Capital Budget Request Site Acquisition (a) Expenditures Savings 125,000 Permanent Personnel Services (a) Site Improvement / Preparation (b) Construction (c) 735,000 Other Personnel Services (b) Utilities (d) 15,000 Current Expense (c) 15,214 125,000 Architect / Engineering (e) Equipment (d) Computer Systems / Equipment (f) Travel (e) Hardware Other (f) 44,804 Software **Total Expenditures / Savings Estimates** 60,018 3007 Highway Maintenance Training Accounting Unit: Will these amounts be consistent each year? Service Yes Furnish / Equipment (g) Capital Budget Criteria (See Instructions) Other (h) **Total Capital Budget Request** 1,000,000 Requirement Code: , C or D B Definition Code: D. or X A F, H, O H Funding Percentages by Source: 75.00% Other Information 0 Total Square Footage: 3500 sf G = General F = Federal G, F, H, O 25.00% 25 O = Other G. F. H. O Estimated Useful Life: H = Highway An Information Technology Project must be part of your IT Plan. Project # entre de la companya Project Justification (Be Concise) Construct new Highway Maintenance Patrol Section Facilities in Dixville. The current facilities need to be relocated to a new location to accommodate the planned

redevelopment of the Balsams resort in Dixville. The department has received a grant from the Northern Border Regional Commission to pay 25% up to \$250,000 of the relocated cost of the relocated facility.

Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet.

Contact Name: Victoria F. Sheehan Name:

Philip Beaulieu - District 1 Engineer Commissioner

Telephone Number: 788-4641 Date: 5/16/16



The existing facilities need to be relocated to a new location to accommodate the planned redevelopment of the Balsams Resort in Dixville. The patrol shed is a satellite facility for the Errol 103 patrol shed, however is critical to the Departments ability to maintain current winter service levels along NH 26 on each side of Dixville Notch due to the severe winter weather in this patrol area.

The department has received a grant from the Northern Border Regional Commission to pay 25% up to \$250,000 of the costs for a relocated facility.

2) What the project is replacing or adding on to:

This project will construct a new right sized facility that will include vehicle storage bays for at least 2 trucks, crew quarters, bathroom and office space. The project will also include a new salt shed to accommodate storage of at least 1-years' worth of salt. The facilities will be located on a new property and will require some site work to develop the new parcel.

3) A brief description of what the project includes

The project will include an approximately 3,000sf maintenance building that meets current building code requirements and about 2,500sf salt building. Architectural/engineering analyses will define the building dimensions and utility accommodations similar to recent replacement NH DOT Highway Maintenance Facilities.

4) Any back up information



Photo 1: View of front corner of existing building.

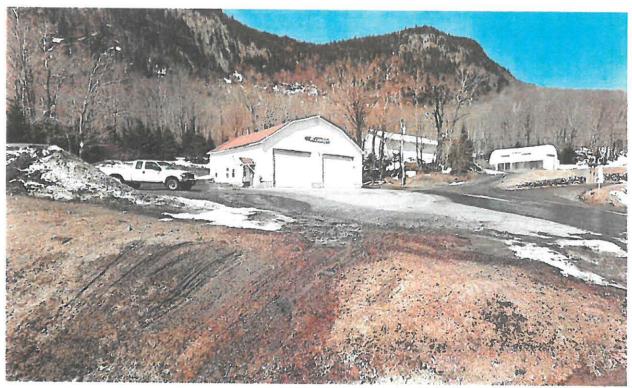


Photo 2: View of front of existing facility looking from country club road.